

PROTECTION

98 JUL 16 PM 3: 52

July 15, 1998

Ms. Susan Hugo Alameda County Health Services 1131 Harbor Bay Parkway Alameda, California 94502-6700 Alton Project No. 41-0123

RE:

FORMER MOBIL STATION 99-105

6301 SAN PABLO AVENUE OAKLAND, CALIFORNIA

Dear Ms. Hugo:

Please find enclosed the Second Quarter 1998 Progress Report for the subject location prepared for Mobil Business Resources Corporation by Alton Geoscience. The contents of this report include:

Quarterly Progress Report Summary Sheet

Exhibit 1: Sampling Schedule

Exhibit 2: Groundwater Levels and Chemical Analysis Table

Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevation ContourMap,

Dissolved-Phase Benzene Concentrations)

Exhibit 4: Benzene vs. Groundwater Elevation Graphs

Exhibit 5: Well Purging and Groundwater Sampling Protocol

Exhibit 6: Monitoring Well Sampling Forms

Exhibit 7: Analytical Laboratory Data Sheets

Exhibit 8: Waste Disposal Manifest

If you have any questions regarding this report, please call Cherine Foutch, Mobil Engineer, at (925) 625-1173, or Kathleen Racke, Alton Geoscience Project Manager, at (925) 606-9150.

Sincerely,

Kathleen Racke

Kathlen Racke

Project Manager

cc:

Ms. Cherine Foutch, Mobil Business Resources Corporation

Mr. Chuck Headlee, Regional Water Quality Control Board, San Francisco Bay Region

M:\...\99-105R08.QMS

ALTON GEOSCIENCE

Quarterly Progress Report Summary Sheet Second Quarter 1998

Former Mobil Station 99-105 6301 San Pablo Avenue Oakland, California

LOP: Alameda County Health Services

Number of water zones:	1	This Page	1
FIELD ACTIVITY:	····	Date Sampled:	22-Apr-98
Number of groundwater wells on-site:	4	Groundwater wells monitored:	4
Number of groundwater wells off-site:	0	Groundwater wells sampled:	3
·		Groundwater wells with free product:	1
Phase of Investigation: Vadose Zone:	N/A	Groundwater phase:	Monitor & Sample
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			5.97 ft
Approximate elevation of potentiometric surface above Mean Sea			26.53 ft
Average Increase/Decrease in ground water elevations since last s	ampling episode:	Decrease	=
Approximate flow direction and hydraulic gradient:		Southwest at:	0.005 n/n
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 p)	pb):		
Wells containing free product:	1	Range in Thickness of Free Product:	0.14 ft
Number of wells with concentrations below MCL:	1	Volume of Free Product Recovered This Period:	0.25 gals
Number of wells with concentrations at or above MCL:	2	Volume of Free Product Recovered To Date:	2.25 gals
		Range in Concentrations:	Benzene: ND<0.3 to 140 ppb
Nature of contamination:	Gasoline		TPH-G: ND<50 to 4,900 ppb
			TPH-D: ND<500 to 2,600 ppb
ADDITIONAL INFORMATION:			a d :
Monitoring Well MW-4 contained 0.14 feet of free product on 4-22-	98. The well was	not sampled; however, the tree product was remove	ed and is currently onsite
pending proper disposal.			
Hathley Rach			44 D. C. 42 Jun 41 0122
Prepared by:		thleen Racke rject Manager	Alton Project No: 41-0123
Mattheway 1) 7 to	\ M∗	otthew W. Katen, RG, CHG	Submittal date: 7/15/98
California RC# 5167	<u> </u>	nior Associate	
California AC# 5107	Dei	TABLE & SANCE AND ADDRESS OF THE PARTY OF TH	



EXHIBIT 1 SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1998 Former Mobil Station 99-105

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	X	X	X	X
MW-2	X	X	X	X
MW-3	X	X	X	X
MW-4	X	X	X	X

NOTES: X = well scheduled for sampling

EXHIBIT 2 GROUNDWATER LEVELS AND CHEMICAL ANALYSIS TABLE

Table Summary of Groundwater Sample Analysis
Former Mobil Station 99-105

		Former Mobil Station 99-105					11705			Dissolved						
		Top of Casing Elevation	Depth to Water	Groundwater Elevation	Product Thickness (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	Lead (ppb)	Oxygen (mg/L)
Well ID	Date	(feet)	(feet)	(feet)	(leet)	(PPV)	<u> (PPu)</u>	(666)	(PP-0/	\PF-/	11-1-1	WF-7				
TW-1	01/04/96	_	6.00	_	0.00	ND	700	ND	ND	ND	ND	_	-			_
WW- 1	01/04/96	_	3,00	_	0.00	ND	_	ND	ND	ND	ND	_	_	ND	-	_
MW-1	03/14/96	32.79	4.50	28.29	0.00	610	450	0.75	0.54	1.5	59	_		_	ND	
MW-1	05/21/96	32.79	5.64	27.15	00.0	ND	ND	ND	ND	ND	ND	_	_		_	
MW-1	08/13/96	32.79	9.76	23.03	0.00	ND	ND	ND	ND	ND	ND	-	_	— .	_	_
MW-1	11/08/96	32.79	10.24	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	_	_	_	_
MW-1	01/31/97	32.79	3.83	28.96	0.00	ND	ND	ND	0.85	ND	ND	2.6	ND .	_		_
MW-1	04/22/97	32.79	9.14	23.65	0.00	ND	ND	ND	ND	ND	ND	ND	_	_	_	
MW-1†	07/29/97	32.79	10.18	22.61	0.00	ND	60****	0.84	0.95	ND	1.6	36	_		_	_
MW-1†	10/09/97	32.79	10.46	22,33	0,00	ND	56****	ND	ND	ND	ND	ND	_	-	_	_
MW-1†	01/23/98	32.79	3.95	28.84	0,00	ND	33	ND	ND	ND	ND	ND		_	_	_
MW-1	04/22/98	32.79	5.33	27.46	0,00	ND	ND	ND	ND	ND	ND	ND		-	_	1.25
			4.64	28.29	0.00	560	250	2.0	0.96	4.3	11	_	_	_	ND	_
MW-2	03/14/96	32.80	4.51	27.15	0.00	730	560	5.1	1.4	6.7	5.9	_	_	_		_
MW-2	05/21/96	32.80	5,65	22.66	0.00	490	380*	25	3.5	7.2	13	_	_		_	_
MW-2	08/13/96	32.80	10.14	22.10	0.00	520	160***	80	2.7	14	66	6.1	_		_	_
MW-2	11/08/96	32,80	10.70		0.00	74	130*	ND	ND	ND	ND	ND	_	_	_	_
MVV-2	01/31/97	32.80	3,84	28.96	0.00	260	430	2.7	ND	2.5	ND	ND	_			_
MVV-2	04/22/97	32.80	9,61	23.19	0.00	320	150****	28	1.2	10	ND	ND	_	_	_	
MW-2†	07/29/97	32.80	10.53	22.27	0.00	460	160*	43	2.8	2.0	2.6	2.6	_		_	_
MW-2†	10/09/97	32,80	10.87	21.93	0.00	ND	54	ND	ND	ND	ND	ND		_	_	-
MW-2†	01/23/98	32.80	3.75	29.05	0,00	180	540	1.2	0.3	0.4	ND	ND	_	_	_	0.85
MVV-2	04/22/98	32,80	5,36	27.44											ND.	
MW-3	03/14/96	32.80	9.55	23.25	0.00	4,200	1,200	220	30	140	520	_		ND	ND	_
MW-3	05/21/96	32,80	10.16	22.64	0.00	8,500	2,800	710	110	440	1,700	_	_	_	_	_
MW-3	08/13/96	32.80	11.18	21.62	0.00	5,000	2,300**	430	ND	200	360		_	_	_	_
MW-3	11/08/96	32.80	11.51	21.29	0,00	8,400	2,900*	890	82	790	1,700	73	ND	_	_	_
MW-3	01/31/97	32,80	7.90	24.90	0.00	16,000	7,500*	660	85	960	1,800	ND	_	_	_	_
MW-3	04/22/97	32,80	10.64	22.16	0.00	8,000	2,700	340	33	400	490	200	ND		_	_
MW-3†	07/29/97	32.80	11.36	21.44	0.00	9,800	2,300*	330	ND	530	530	ND	_	_		_
MW-3t	10/09/97	32.80	11.52	21.28	0.00	7,300	2,600*	300	ND	430	460	270	ND	_	_	
MW-3†	01/23/98	32.80	7,50	25,30	0.00	6,100	2,300	190	23	330	320	ND		_		0.45
MW-3	04/22/98	32.80	6.81	25,99	0.00	4,900	2,600	140	12	250	230	ND	ND	_		U.45
MW-4	03/14/96	31.50	4.92	26.58	0.00	12,000	3,500	2,200	140	880	2,000		-	_	ND —	_
MW-4	05/21/96	31.50	8.60	22.90	0.00	11,000	4,200	1,700	ND	930	470	_	_	_	_	_
MW-4	08/13/96	31.50	10.02	21.50	0.02	_	 .	_	_	_		_			_	
MW-4	11/08/96	31.50	10.28	21.33	0.15	_	_	_	_	_	4 400	_	_	_	_	
MW-4	01/31/97	31.50	7.88	23.62	0.00	23,000	8,200*	980	68	1,100	1,400	ND	_	_		_
MW-4	04/22/97	31.50	7.40	24,10	0.00	8,800	4,500	950	ND	610	130	ND	_	_	_	_
MW-4	07/29/97	31.50	9,85	21.74	0.12	_		_	_		_		_	_	_	_
MW-4	10/09/97		10.35	21.38	0,30	_		_	_	_	_	_	_	_	_	_
MW-4	01/23/98	31.50	4.68	27.51	0.92	_	_			_	_	_	_	_		_

6/8/98

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Summary of Groundwater Sample Analysis

Former Mobil Station 99-105

			D-w4b An		Product	CHILO	MODE CLACK			Ethyl-	Total	MTBE	MTBE			Dissolved
		Top of Casing Elevation	Depth to Water	Groundwater Elevation	Thickness	TPH-G	TPH-D	Benzene	Toluene	benzene	Xylenes	8020	B240 or 8260	TOG	Lead	Oxygen
Well ID	Date	(feet)	(feet)	(feet)	(feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(mg/L)
MW-4	04/22/98	31.50	6.39	25,22	0.14			_	_	_	_	_		-	-	_
AB-1	03/05/98	_		_		1,600	_	31	5,3	79	130	ND	_	_	_	<u> </u>
AB-2	03/05/98	_	_	_	_	ND	_	ND	2.9	0.9	5.7	ND	_	_		_
AB-3	03/05/98	_	_			6,800	-	680	100	1,500	2,300	230	. -		_ '	
AB-4	03/05/98	_	_	-		8,500	_	240	ND	260	720	ND			_	_
AB-6	03/05/98	_	_	_	-	12,000	_	350	ND	310	100	ND	_ ·	_		_
AB-9	03/05/98	_	_	_	-	1,000	_	57	12	44	93	ND		_	_	_
AB-10	03/05/98	-	_	_		200	_	3.0	1.2	3.2	2.8	ND	_	_	-,	
AB-11	03/05/98	_	_	_	_	ND	_	ND	ND	ND	ND	ND			_	-
AB-12	03/05/98	_		-		8,800	_	660	50	630	940	37		_	-	_
AB-13	03/05/98	_	_	_	_	210	-	11	8.0	10	15	ND			_	_

NOTES:

ppb = parts per billion

mg/L = milligrams per liter

TPH-G = total petroleum hydrocarbons as gasoline

TPH-D = total petroleum hydrocarbons as diesel

TOG = total oil and grease

MTBE = methyl-tert butyl ether

- = not measured/not analyzed

ND = not detected at or above method detection limit

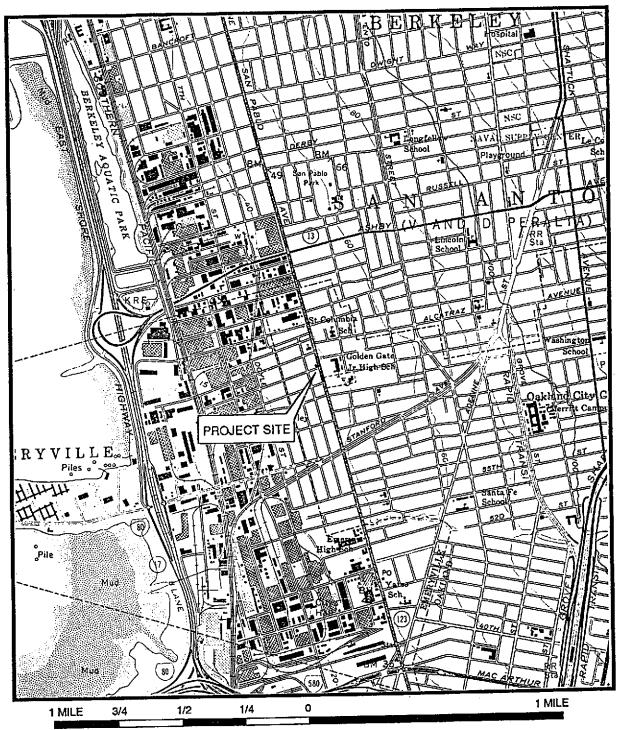
^{** =} diesel and unidentified hydrocarbons <C15>C25

^{*** =} diesel and unidentified hydrocarbons <C20

^{**** =} unidentified hydrocarbons >C18

^{***** =} diesel and unidentified hydrocarbons >C20

^{†=} well sampled using no-purge method



SCALE 1:24,000

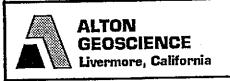
Source: U.S.G.S. Map
Oakland West Quadrangle
California
7.5 Minute Series

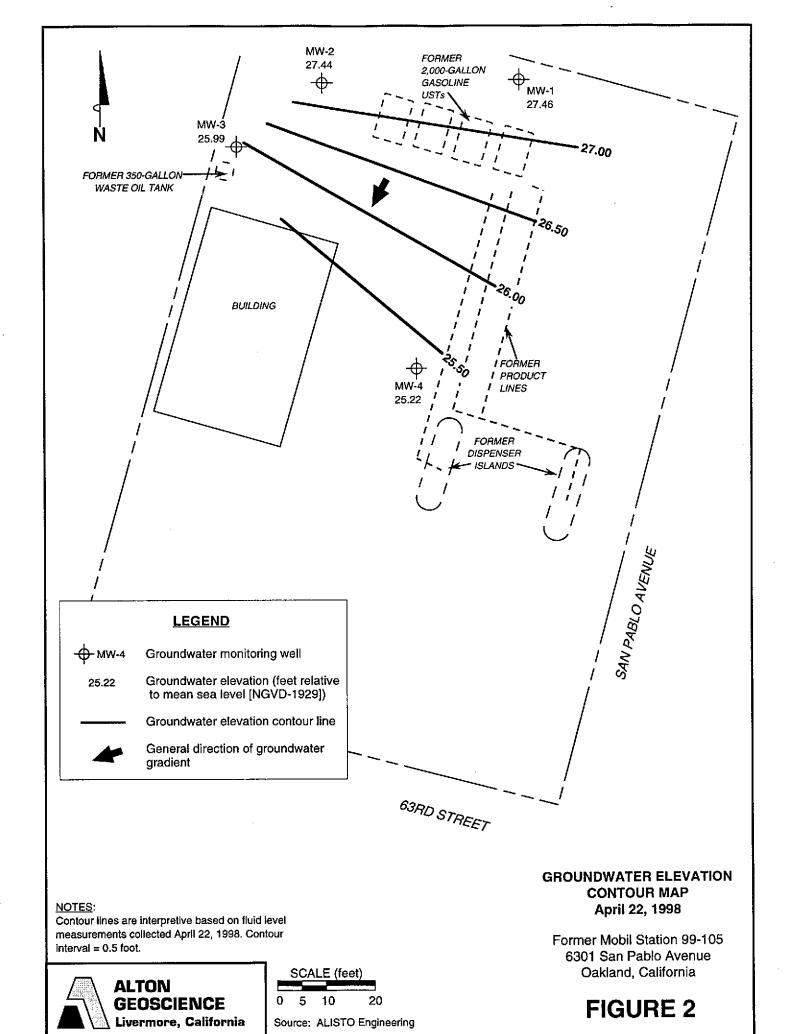


VICINITY MAP

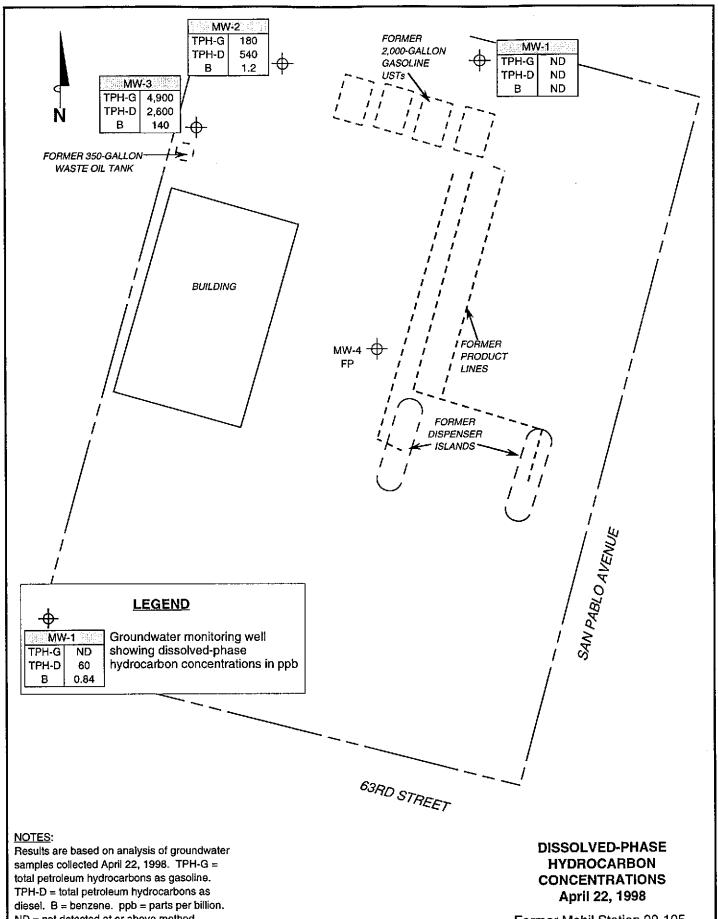
Former Mobil Station 99-105 6301 San Pablo Avenue Oakland, California

FIGURE 1



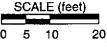


99-105/Site plan



ND = not detected at or above method detection limit. FP = free phase product.

ALTON GEOSCIENCE Livermore, California



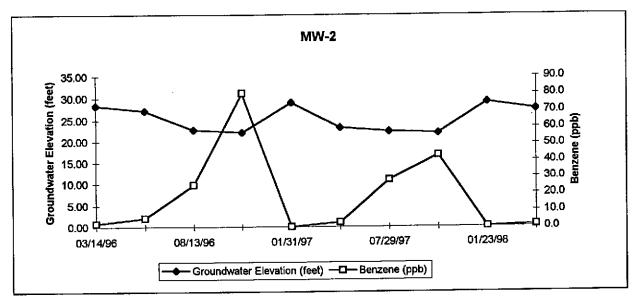
Source: ALISTO Engineering

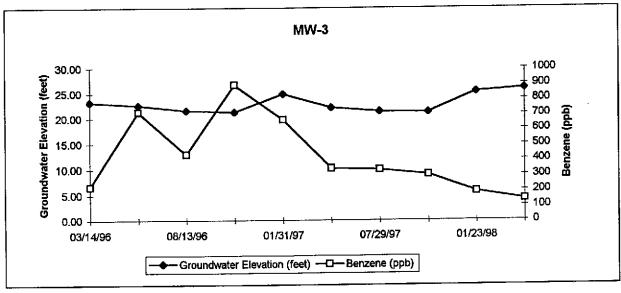
Former Mobil Station 99-105 6301 San Pablo Avenue Oakland, California

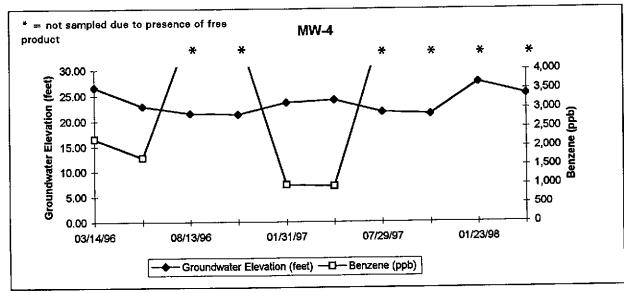
FIGURE 3

EXHIBIT 4 BENZENE VS. GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs







NOTE: ND values are plotted as zero.

EXHIBIT 5 WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

Fluid-levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured to the nearest 0.01 foot relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

GROUNDWATER SAMPLING

Currently, 'pre-purge' and 'non-purge' methods of sampling both comply with regulatory standards.

NON-PURGE METHOD:

Alton Geoscience utilizes the 'non-purge' method of sampling for all qualifying groundwater monitoring wells. Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

The following criteria necessary for a well to qualify for 'non-purge' sampling are taken from a letter issued by San Francisco Bay Regional Water Quality Control Board on January 31, 1997:

- 1. The non-purging approach shall be used only for monitoring wells where groundwater has been impacted by petroleum hydrocarbons, BTEX, and MTBE.
- 2. Non-purge sampling shall be utilized for unconfined aquifers only.
- 3. The monitoring well shall be properly permitted, constructed (in this case, screened across the water table), and developed.
- 4. The well is presently in use for groundwater or soil vapor extraction.
- 5. The well does not contain free product.

- 6. For new wells or wells brought into monitoring for the first time, the first round of groundwater sampling performed at a site shall be with both non-purged and purged samples. The purging and sampling method used shall be documented. This shall include the rate of purge and sampling details. For these wells we require measurements of dissolved oxygen, specific conductance, pH, and temperature whether purged or not purged. Also, if biodegradation is being tracked at the well, our requirements do not preclude the measurement of other parameters.
- 7. Existing wells which have already been routinely purged in previous sampling events immediate to being switched to a non-purging mode do not require an initial duplicate non-purged and purged sample.
- 8. Monitoring data frequency shall be as required by the appropriate regulatory oversight agency.
- 9. Should site closure be requested where the non-purged approach has been used, the <u>final</u> confirmation sampling event shall include both non-purged and purged samples from each well or as agreed upon with the appropriate regulatory oversight agency.

PURGE METHOD:

Groundwater monitoring wells that do not qualify for the 'non-purge' method are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

EXHIBIT 6 MONITORING WELL SAMPLING FORMS

MOBIL UNIT COST FIELD FORM GROUND WATER MONITORING AND SAMPLING

PROJECT NUMBER 41-0123-50 STATION NUMBER 99-105 WEATHER SWAY	ALTON PERSONNEL	SL 412219 Wedneso	8 lay
Hours spent travelling	to and from site (return): _ Hours spent on site: _	3.5	
Number of mob	/demobs to and from site:		
Roundtrip mileage from Alto Roundtrip mileage from Alto	MILEAGE on's office to site (1 man): _ on's office to site (2 man): _	80	
	led (depth to water > 25): _	<u>ਤ</u>	
Number of drums of ground water Number of gallons of groundwate	RUM INVENTORY disposed into onsite ARS: _ er purged and transported: _	97	
Number of days for non-i	RAFFIC CONTROL major street traffic control: major street traffic control: t for Caltrans lane closure:		<u> </u>
Free product pump-out discipline	PRODUCT PUMP-OUTS e travel (cap of 200 miles): it equipment mob\demobs: wells (manual pump-outs):		
FIELD NOTES:			
Runoff in oursell	Yokes		
-high sheen	mw1, m	W2,	M3, M4
Free product form - not sampled	din mu	-4	· . ·
- not sampled			
		-	
			<u> </u>

FLUID MEASUREMENT FIELD FORM

Project No.: $\frac{41 - 0123 - 50}{99 - 105}$

Alton Personnel: 51

Well	Screen	Depth to	Depth to	Free Product	Free Product	Total Depth	8.0.	Mg Comments	
Number	Interval	Water	Product	Thickness (ft)	Recovery	1 1	Fires Dros	duct	
MWY		6.39	6.25	,14	.25 galla	10.		runaff	H ₂ O
mwl		5.33				14.84	1.25	renoff	u bax
MW2		5.36				19.47	85		Shean
MW3		6.81				20.04	.45	<u>'</u>	Sver
V1.00 O								•	
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Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

Site: 99-105 Project No.: 41-0123-58 ample	ad By: SC	Date: 4/22
	11-11 NO(12) 7-	Purge Method: SUb
Well No MW Purge Method: 506	Total Depth (feet) 19.47	Depth to Product (feet):
Total Depth (feet) 984 Depth to Product (feet): Product Recovered (gellons):	Depth to Water (feet): 5.30	Product Recovered (gallons):
Copyri of traces to a superior	Water Column (feet): 14 11	Casing Diameter (Inches): 4
Water Column (feet): 14.5 Casing Diameter (Inches): 4" 80% Recharge Depth (feet): 5-23 1 Well Volume (gallons): 9.43		1 Well Volume (gallons): 9.
3 200	·	Conduc Temper- 27
Time Time Depth Volume Conduc Temper 28.29	Start Stop To Water Purged	tivity ature pH
Start Stop To Water Purged tigity store PH		(uS/cm) (F;C)
(gettons) (us/cm) (F/C) (9:37) (00 72 (00 7.20)	10:03	.52 63.27.00
		,40 63,61,80
9:29 30 .68 65.4 7.26	10:10 30	.46 64.1 6.71
9:39 30 .68 65.5 100		
Total Purged 3 Time Sampled 9:44	Total Purged	Time Sampled
Comments:	Comments:	
Tuebidity	Turbidity =	
	Well No. MW-4	Purge Method:
Well No. MW3 Purge Method: 505 Depth to Product (feet):		Depth to Product (feat): 6.2
Total Depth (feet) 10.00 Product Recovered (gellons):	Depth to Water (feet): 6.39	Product Recovered (gallons):
D40(1) (4 (10(4)	Water Column (feet):	Casing Diameter (Inches): 4'
Water Column (feet): 13.23 Casing Diameter (Inches): 4" 80% Recharge Depth (feet): 9.46 1 Well Volume (gallons): 8.40	80% Recharge Depth (feet):	1 Well Volume (galions):
Sand (1000000 12000000 10000000 10000000 10000000 1000000	the state of the s	Conduc- Temper-
ime Copin	Start Stop To Water Purged	tivity sture pH
Start Stop To Water Purged tivity ature pH	(feet) (gallons)	(uS/cm) { F , C }
(feet) (gallons) (US/cm) (F.C)		
10:34 9 .61 61.5 6.19		
1040 27 1.10 63.15.68		
1090		
	· · ·	
		0.00
Total Purged A Time Sampled 10:50	Total Purged	Time Sampled # 17+00
Comments:	Comments:	
Turbidity=	Turbidity =	
	Well No	Purgs Method:
	Total Depth (feet)	Depth to Product (feet):
- 10-01	Depth to Water (feet):	Product Recovered (gallons):
Depth to Water (feet): Product Recovered (gallons): Casing Diameter (Inches):	Water Column (feet):	Casing Diameter (Inches):
80% Recharge Depth (feet): 1 Well Volume (gallons):	80% Recharge Depth (feet):	1 Wall Volume (gallons):
	Time Time Depth Volume	Conduc- Temper
	Start Stop To Water Purged	tivity sture pH
	(faet) (gallons)	(uS/cm) (F,C)
(gellons) (uS/cm) (F;C)		
 - - - - - - - - - -		<u> </u>
		
		
	·	and an analysis and an analysis
Total Purged Time Sampled	Total Purged	Time Sampled
TOTAL LOI GOO	Comments:	\ <u>-</u>
Comments:	Turbidity =	
Turbldity=		

EXHIBIT 7 ANALYTICAL LABORATORY DATA SHEETS

Lancaster Laboratories A division of Thermo Analytical Inc.

LLI Sample No. WW 2916646 Collected: 4/22/98 at 09:49 by SL

Submitted: 4/24/98 Reported: 5/10/98

6/10/98 Discard:

CAT

NO.

5553

MW-1 Grab Water Sample

LOC# 99-105 PRCA# 960135 PHC# 6L

Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O. 99-105 Rel.

AS RECEIVED

ANALYSIS NAME

REPORTING RESULTS LIMIT

UNITS

N.D. 0.50 According to the California LUFT Protocol, the quantitation for Diesel

Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal

hydrocarbons). DTTV ATDE (0000)

8015 Mod. for Diesel

RECEIVED MAY 1 5 1998 \mathbf{BY} :

LCS

DUP

LCS

MS

RPD

MSD

MS

8209 BIEX, MIBE (8020)			
0776 Benzene	N.D.	0.3	ug/1
0777 Toluene	N.D.	0.3	ug/]
0778 Ethylbenzene	N.D.	0.3	ug/]
0779 Total Xylenes	N.D.	0.6	ug/]
0780 Methyl tert-Butyl Ether	N.D.	10.	ug/1

8268 8015 Mod. for Gasoline

SAMPLE

UNITS

SAMPLE

RPT LIM

ug/l 50. TPH-GRO (CA LUFT) 5554

BLANK

QUALITY CONTROL REPORT DUP

RPD

5553 8015 Mod. for Diesel 0.50 mg/l	Batch: 981170002A L118 N.D.				92	94	3	50	120
8209 BTEX, MTBE (8020)	Batch: 98117A02								
0776 Benzene 0.3 ug/1	N.D.	108	104	4	94			78	138
0777 Toluene 0.3 ug/l	N.D.	105	100	4	92			78	118
0778 Ethylbenzene 0.3 ug/l 0779 Total Xylenes	N.D.	104	99	5	92			7 7	119

#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300 at (717) 656-2300 133857 612226 19:45:25 D 0001 0.00 00010900 ASR000

Barbout hants

Respectfully Submitted Michele Turner, B.A. Manager, Volatiles



Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681 LCS LIMITS

LOW HIGH



LLI Sample No. WW 2916646 Collected: 4/22/98 at 09:49 by SL

Submitted: 4/24/98 Reported: 5/10/98

Discard: 6/10/98

MW-1 Grab Water Sample LOC# 99-105 PRCA# 960135 PHC# 6L Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728 Mobil Business Resources Corp.

2063 Main Street Suite 501

Oakley CA 94561

P.O. 99-105

Rel.

BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS L LOW	IMITS. HIGH
N.D.		107	102	4	96			76	116
N.D.		98	96	2	94			76	144
Batch: 98117A02									
N.D.		116	107	7 :.=.=.=.	89 =-=-	.=.=.=	.=.=.=	75 -=-=-	125
	N.D. N.D. Batch: 98117A02	BLANK RPD N.D. N.D. Batch: 98117A02	BLANK RPD MS N.D. 107 N.D. 98 Batch: 98117A02	BLANK RPD MS MSD N.D. 107 102 N.D. 98 96 Batch: 98117A02	BLANK RPD MS MSD RPD N.D. 107 102 4 N.D. 98 96 2 Batch: 98117A02	BLANK RPD MS MSD RPD LCS N.D. 107 102 4 96 N.D. 98 96 2 94 Batch: 98117A02	BLANK RPD MS MSD RPD LCS DUP N.D. 107 102 4 96 N.D. 98 96 2 94 Batch: 98117A02	BLANK RPD MS MSD RPD LCS DUP RPD N.D. 107 102 4 96 N.D. 98 96 2 94 Batch: 98117A02	BLANK RPD MS MSD RPD LCS DUP RPD LOW N.D. 107 102 4 96 76 N.D. 98 96 2 94 76 Batch: 98117A02

		SURROGATE SUM	MARY	SURROGATE	PTIMITS
	TRIAL ID	SURROGATE	RECOVERY % 80	LOW 50	HIGH 135
5553 8015 Mod. for Diesel		Chlorobenz o-Terpheny	118	75	135
8209 BTEX, MTBE (8020)		TFT	98	70	130
8268 8015 Mod. for Gasoline		TFT	87	70	130

LABORATORY CHRONICLE

CAT				anai	_YSIS	
NO	ANALYSIS NAME	METHOD	TRIAL	ID	DATE AND TIME	ANALYST
5553	8015 Mod. for Diesel	CA LUFT Diesel Range Organics	1		04/28/98 1413	M. Susan Kreider
	Extraction - DRO (Waters)	SW-846 3510B	ī	•	04/27/98 1130	Roxanne M. Roth
		SW-846 8020A	ī		04/27/98 1656	Donald L. Shelly., Jr.
	BTEX, MTBE (8020)	CA LUFT Gasoline Method	ī		04/27/98 1656	Donald L. Shelly., Jr.
8268	8015 Mod. for Gasoline	CA LUFT dasoffile riethod	-		0+7E/750 2000	Daniel 21 411011311, 1111

State of California Lab Certification No. 2116

#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300

Respectfully Submitted Michele Turner, B.A. Manager, Volatiles



Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lançaster, PA 17605-2425



LLI Sample No. WW 2916647 Collected: 4/22/98 at 10:20 by SL

Submitted: 4/24/98 Reported: 5/10/98

Discard: 6/10/98

MW-2 Grab Water Sample

LOC# 99-105 PRCA# 960135 PHC# 6L

Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O. 99-105

Rel.

AS RECEIVED

REPORTING CAT UNITS ANALYSIS NAME **RESULTS** LIMIT NO.

0.54 0.508015 Mod. for Diesel According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal

hydrocarbons).

5553

0780

8209 BTEX, MTBE (8020) ug/1 1.2 0.3 0776 Benzene ug/1 0.3 0.3 0777 Toluene Ethylbenzene ug/1 0.4 0.3 0778 Total Xylenes Methyl tert-Butyl Ether N.D. 0.6 ug/1 0779 ug/l N.D. 10.

8268 8015 Mod. for Gasoline

ug/l 180. 50. 5554 TPH-GRO (CA LUFT)

QUALITY CONTROL REPORT

SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS 1 LOW	LIMITS HIGH
5553 8015 Mod. for Diesel 0.50 mg/l	Batch: 981170002A L118 N.D.					92	94	3	50	120
8209 BTEX, MTBE (8020)	Batch: 98117A02									
0776 Benzene 0.3 ug/1	N.D.		108	104	4	94			78	138
0777 Toluene 0.3 ug/l	N.D.		105	100	4	92			78	118
0778 Ethylbenzene 0.3 ug/l 0779 Total Xylenes	N.D.		104	99	5	92			77	119

#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

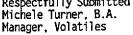
Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300 133857 612226 19:45:59 D 0001 0.00 00010900 ASR000

> Respectfully Submitted Michele Turner, B.A.

Barbarat hearts



Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681





LLI Sample No. WW 2916647 Collected: 4/22/98 at 10:20 by SL

Submitted: 4/24/98 Reported: 5/10/98

6/10/98 Discard:

MW-2 Grab Water Sample LOC# 99-105 PRCA# 960135 PHC# 6L Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728 Mobil Business Resources Corp. 2063 Main Street

Suite 501 Oakley CA 94561 P.O. 99-105

Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	IMITS HIGH	
0.6	ug/1	N.D.		107	102	4	96			76	116	
0780 Methyl 10.	tert-Butyl Ether ug/l	N.D.		98	96	2	94			76	144	
8268 8015 Mod.	for Gasoline	Batch: 98117A02										
5554 TPH-GRO 50.) (CA LUFT) ug/l	N.D.		116	107	7	89		.=.=.=	75	125	
=-=-=-=-=-		.=.=.=.=.=.=.=.=.=	CIRCOCATE SIN	MADV	.=.=.=.							

		SURRUGATE SUM	MART	SURROGATE	LIMITS
	TRIAL ID	SURROGATE	RECOVERY *	LOW	HIGH
5553 8015 Mod. for Diesel		Chlorobenz o-Terpheny	78 101	50 75	135 135
8209 BTEX, MTBE (8020)		TFT	102	70	130
8268 8015 Mod. for Gasoline		TFT	98	70	130

LABORATORY CHRONICLE

le:
Jr.
Jr.

State of California Lab Certification No. 2116

#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300

Respectfully Submitted Michele Turner, B.A. Manager, Volatiles



Lancaster Laboratories 2425 New Holland Pike PO 8ox 12425 Lancaster, PA 17605-2425 717 666 7200 Cav. 717-656-2681 LLI Sample No. WW 2916648 Collected: 4/22/98 at 10:50 by SL

Submitted: 4/24/98 Reported: 5/10/98

6/10/98 Discard:

MW-3 Grab Water Sample

LOC# 99-105 PRCA# 960135 PHC# 6L

Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O. 99-105 Rel.

AS RECEIVED

REPORTING CAT ANALYSIS NAME NO.

RESULTS LIMIT

UNITS

5553 8015 Mod. for Diesel According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal

Due to dilution of the sample made necessary by the high levels of

TPH-DRO, normal quantitation limits were not attained.

			y GC/MS		.=.=.=.=.=.		=.=.5.5.	 .=.=.
-=	-=-=-							
	2010	Methvl	t-butyl	ether		N.D.	5.	ug/1
					.=			
-=		=-=-=	:-=-=-=	.=.=.=	.=			
	9200	RTFY	MTRE (80	201				

0776 Benzene ug/1 2. 0777 Toluene 12. ug/1 250. 2. Ethylbenzene 0778 ug/1 б. 0779 230.

Total Xylenes Methyl tert.Butyl Ether N.D.# 50. ug/1 0780 Due to the presence of an interferent near its retention time, the normal

reporting limit was not attained for methyl t-butyl ether.

8268 8015 Mod. for Gasoline

4,900. 200. ug/l 5554 TPH-GRO (CA LUFT)

QUALITY CONTROL REPORT

LCS LCS LIMITS SAMPLE SAMPLE LOW RPD LCS RPD HIGH MS MSD RPT LIM UNITS BLANK RPD Batch: 981170002A L119 5553 8015 Mod. for Diesel 120 92 3 50

2.5 mg/1 N.D.

2306 MTBE by GC/MS Batch: 98125A70

> #-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300 at (717) 656-2300 133857 612226 19:46:34 D 0001

0.00 00022600 ASR000

Respectfully Submitted Michele Turner, B.A.

See reverse side for explanation of symbols and abbreviations.

Barbout hants



Lancaster Laboratories 2425 New Holland Pike PQ Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681 Manager, Volatiles

.ancaster Laboratories A division of Thermo Analytical Inc.

LLI Sample No. WW 2916648

Collected: 4/22/98 at 10:50 by SL

Submitted: 4/24/98 Reported: 5/10/98

6/10/98 Discard:

2306 MTBE by GC/MS

5553 8015 Mod. for Diesel

8268 8015 Mod. for Gasoline

8209 BTEX, MTBE (8020)

MW-3 Grab Water Sample LOC# 99-105 PRCA# 960135 PHC# 6L Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O. 99-105

Rel.

PRODITE COOL SAIT (ADTO ATC.,	Calciana, on	DUD			MS		LCS	LCS	ıcs	LIMITS
SAMPLE SAMPLE RPT_LIM UNITS	BLANK	DUP RPD		MSD	RPD	LCS	DUP	RPD	LOW	HIGH
	•									
2010 Methyl t-butyl ether 5. ug/l	N.D.		113	109	2	109			70	130
8209 BTEX, MTBE (8020)	Batch: 98117A02									
0776 Benzene			100	104	4	04			78	138
2. ug/1	N.D.		108	104	4	94			70	130
0777 Toluene 2. ug/l	N.D.		105	100	4	92			78	118
0778 Ethylbenzene 2. ug/l	N.D.		104	99	5	92			77	119
0779 Total Xylenes 6. ug/l	N.D.		107	102	4	96			76	116
0780 Methyl tert-Butyl Ether 50. ug/l	N.D.		98	96	2	94			76	144
8268 8015 Mod. for Gasoline	Batch: 98117A02									
5554 TPH-GRO (CA LUFT) 200. ug/l	N.D.		116	107	7	89	 -	.=.=.=	75	125
=, =, =, ±, =, =, =, =, =, =, =, =, =, =, =, =, =,	#.#.#.#.#.#.	SURROGATE	SUMMARY		_,	SURR	OGATE	LIMITS		

SURROGATE

d4-1,2-DCA

d8-toluene

Chlorobenz (1997)

o-Terpheny

DBFM

4-BFB

TFT

TFT

LABORATORY CHRONICLE

RECOVERY X

94

93

101

91 52

82

102

126

#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300

TRIAL ID

75

Respectfully Submitted Michele Turner, B.A. Manager, Volatiles



2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 HIGH

120

115

135

130



LLI Sample No. WW 2916648 Collected: 4/22/98 at 10:50 by SL

Submitted: 4/24/98 Reported: 5/10/98

Discard: 6/10/98

CAT

NO.

MW-3 Grab Water Sample

ANALYSIS NAME

LOC# 99-105 PRCA# 960135 PHC# 6L

Mobil: 6301 San Pablo Ave., Oakland, CA

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O. 99-105 Rel.

AS RECEIVED

REPORTING

RESULTS

LIMIT

UNITS

ANALYSIS CAT DATE AND TIME ANALYST TRIAL ID METHOD NO ANALYSIS NAME 04/30/98 1425 M. Susan Kreider 04/27/98 1130 Roxanne M. Roth CA LUFT Diesel Range Organics SW-846 3510B 5553 8015 Mod. for Diesel 7003 Extraction - DRO (Waters) Abul I. Siddiqui Donald L. Shelly., Jr. Donald L. Shelly., Jr. 05/06/98 0232 04/28/98 2120 SW-846 8260B 1 2306 MTBE by GC/MS 8209 BTEX, MTBE (8020) SW-846 8020A 04/28/98 2120 CA LUFT Gasoline Method 8268 8015 Mod. for Gasoline

State of California Lab Certification No. 2116

#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300

Barbaget brants

Respectfully Submitted Michele Turner, B.A. Manager, Volatiles



Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681

Mobil Western Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: 9728 Sample #: 2916646 -648

	Please	print.					SCR#:		
ATMI GGOSCIENICE			s Reque	sted ¦	ist total nu	mber of containers in the ach analysis.			
Mobil Consultant/Office: ALTON GEOSCIENCE Consultant Prj. Mgr: Ion Seelige (Prj. #: 41-0123-50)									
Consultant Pg. Mgr. 1014 500 1901 191. #: 11 01 01 01 01 01 01 01 01 01 01 01 01		28							eg.
Consultant Phone #: 925 - 606-9150 Fax #: 925-6069260 Location Code #: 99-105 PRCA/AFE/Release #: 960135	Se		90						P) Ce
/ 1	PDE		2 2	.					G C
Commitment Code #: Phase Code:Phase Code:	☐ Potable ☐ NPDES		23						the sea
Site Address: (030) Sanfablo tue, Oakland State: CA		Total # of Containers	* ∤						San
Sampler: <u>Sarah lavese</u>		ا ق ا رخ	WA						5년 ()
Mobil Engineer: Cherine Foutch	Soil Water Oil □ Air □		1762 1752		1				Temperature (if requested)
Date Time g	ste	Total # of	ELS.						
Mobil Engineer: Cherine Fourth Date Time a Collected Co	β ≥ ō		· . - 				Remarks		
mu-1 4/22 9.49 X	X	6 X	XX				* Confirm		1.0
MW-Z 1 10:20 X	X	(0 X	XX				highest con	<u>Central</u>	m
	X	6 X	XX				highest con	>	
mw-3 6:50 x	1-1-1-	1							
		 -							
	1				_		-		
Turnaround Time Requested (TAT) (please circle): Relinquished by:			1	Date	Time	Received by:		Date	Time
	Vic.		- 6	11721	1:45				
The winds had been				Date	Time	Received by:	·	Date	Time
24 nour duer day			1	1		:			
Data Package Options (please circle if requested) SDG Complete? Yes No Relinquished by:				Date	Time	Received by:		Date	Time
QC Summary GLP			ļ						
Type II (Tier I) Other Site-specific QC required? Type III (NJ Red. Del.) Disk Yes No III yes, indicate QC sample Relinquished by:				Date	Time	Received by:		Date	Time
Type III (NJ Red. Del.) Disk Yes No If yes, indicate QC sample and submit triplicate volume.	•		1					ļ	
Type VI (Raw Data) Internal Chain of Gustody Relinquished by	:			Date	Time	Received by:		Date	Time
WIP required? Yes No						Con.	w/ser	14111	085

EXHIBIT 8 WASTE DISPOSAL MANIFEST

	a Parist I a Parismont Number
P NON-HAZARDOUS (1. Generator's US EPA ID No. WASTE MANIFEST: 1. Generator's US EPA ID No.	2. Page 1 3. Document Number NH— Nº 43704
4. Generator's Name and Majling Address 11001 L. (Street TPT-2 3700 W. 190+ Street TPT-2 TORRANCE, CA 90503-2929 TORRANCE, CA 90503-2929	1297-1335-PS
Generator's Phone 3/0 - 2/2 - 707/	7. Transporter Phone
Many Jaken Excileramile CAR 00007013	510-7978511
8. Designated Facility Name and Site Address US SPA(D Number US SPA(D Number	10. Facility's Phone
5 65 33, Havy 58, WE 31 McKitt Diele GA 93251 (AS98062/831	805-762-7607
11. Waste Shipping Name and Description	12. Containers 13. 14. Total Unit No. Type Quantity Wt/Vol
NOW HAZARDOUS WASTE LIQUID	001 TT 1205 G
b.	
	Handling Codes for Wastes Listed Above 11a. 11b. Alfan (2030,000) 30 & Lisib been g Liven Mone, CA
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state. Printed/Typed Name Signature	^
720132 Montress for Malerials, 420032 V	Month Day Year 198
Printed/Typed Name Steven R. Stont Signature Signature	Month Day Gar
18. Discrepancy Indication Space	
MUTTS	
19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as r	ooted in Item 18.
Printed typed Name	Talh ma 14 29 9